

Quiz 9

- 1) Expand:

$$(2x - y)^4$$

- 2) Find the fourth term:

$$(2x - 3y)^7$$

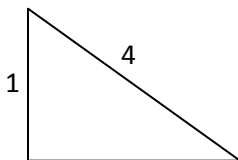
- 3) If 4 marbles are drawn at random all at once from a bag containing 8 white marbles and 6 black marbles, what is the probability that 2 will be white and 2 will be black?

- 4) A committee of 10 people is to be chosen from 10 students, 8 administrators, and 12 faculty. What is the probability that the committee will have 2 students, 3 administrators and 5 faculty members?

- 5) The probability that a patient recovers from a delicate heart operation is 0.9. Find the probability that exactly 5 of the next 7 patients who have this operation will survive.

- 6) Suppose that a civil service examination is designed so that 70% of all persons with an IQ of 90 can pass it. Find the probability that among 15 persons with an IQ of 90 who take the test at least 13 pass.

- 7) Solve the Triangle:



- 8) Solve the Triangle:

